eMac in Education

Designed for education, Apple's most affordable desktop computer features a fast G4 processor, a 17-inch flat CRT, the CD- and DVD-burning SuperDrive, and Apple's innovative iLife applications. All this in an amazingly compact all-in-one system—eMac has everything you need for a computer lab or teacher's desk.

Key Features

Display brilliant images. The 17-inch (16-inch viewable) flat CRT display provides 40 percent more screen viewing area than a 15-inch CRT display, with photorealistic colors and crisp, clear images.

Power the digital classroom. Running at up to 1.25GHz, the PowerPC G4 processor with Velocity Engine delivers accelerated performance, making the most of all your applications.

Create, burn, and play DVDs. The revolutionary 8x-speed SuperDrive makes it easy to burn CDs and DVDs, and now you can burn professional-looking DVDs twice as fast.[1]

Display vivid graphics anywhere. The ATI Radeon 9200 graphics processor with 32MB of dedicated graphics memory delivers over 1 billion pixels per second for rich 2D and 3D graphics.

Connect in seconds. Using FireWire and USB, eMac automatically recognizes most printers, cameras, digital music players, and other peripherals. With Ethernet and modem[2] built in, connecting to the Internet is a snap.

Get unwired. With AirPort Extreme, you can connect wirelessly to the Internet from anywhere in your classroom, network all of your campus Mac and Windows computers, and even share a USB printer.[3]

Keep your systems clean. Prevent students from introducing viruses, playing music CDs, or pirating software and digital music with the special no-optical-drive configuration. It's simple—no CD drive, no DVD drive.

Technical Specifications

Processor and memory

- 1GHz or 1.25GHz PowerPC G4 processor with Velocity Engine
- 512K on-chip level 2 cache at full processor speed
- 167MHz system bus
- 256MB of PC2700 (333MHz) DDR SDRAM, expandable to up to 1GB; two user-accessible 184-pin DIMM slots support up to 1GB using 256MB or 512MB DIMMs

Storage

- 40GB or 80GB Ultra ATA/100 hard disk drive[4]
- One of the following optical drives:
  - CD-ROM drive: reads CDs at up to 32x speed
  - Combo drive (DVD-ROM/CD-RW): reads DVDs at up to 12x speed, writes CD-R discs at up to 32x speed, writes CD-RW discs at up to 10x speed, reads CDs at up to 32x speed
  - SuperDrive (DVD-R/CD-RW): writes DVD-R discs at up to 8x speed, reads DVDs at up to 10x speed, writes CD-R discs at up to 24x speed, writes CD-RW discs at up to 10x speed, reads CDs at up to 32x speed
  - No-optical-drive configuration also available

Display

- Built-in 17-inch flat CRT (16-inch viewable image size); 0.25-mm dot pitch

Graphics support

- ATI Radeon 9200 graphics processor with AGP 4X support
- 32MB of dedicated Double Data Rate (DDR) SDRAM video memory
- Five screen resolutions: 640 by 480 pixels, 800 by 600 pixels, 1024 by 768 pixels, 1152 by 864 pixels, and 1280 by 960 pixels

Communications

- Built-in 56K V.92 modem (RJ-11 connector)[2]
- Built-in 10/100BASE-T Ethernet (RJ-45 connector)
- Built-in antenna and expansion slot for optional 54-Mbps AirPort Extreme Card (based on IEEE 802.11g; Wi-Fi Certified for 802.11g and 802.11b interoperability)[3]
- Optional internal Bluetooth module

Peripheral connections

- Two FireWire 400 ports; 8 watts shared
- Total of five USB ports: three USB 2.0 ports (up to 480 Mbps) on computer, two USB 1.1 ports on keyboard

Audio

- Integrated high-performance stereo audio system
- Internal 16-watt digital amplifier
- Headphone jack (headphones not included)
- Audio line-in jack
- Built-in microphone

Video

- VGA output port (requires Apple VGA Display Adapter, sold separately)
- VGA output resolutions: 640 by 480 pixels at 60Hz, 67Hz, 72Hz, 75Hz, 85Hz, 90Hz, 100Hz, and 120Hz; 800 by 600 pixels at 56Hz, 60Hz, 72Hz, 75Hz, 85Hz, 90Hz, 100Hz, and 120Hz; 1024 by 768 pixels at 60Hz, 70Hz, 75Hz, 85Hz, 90Hz, and 100Hz; 1152 by 870 pixels at 75Hz; 1280 by 960 pixels at 75Hz
- S-video and composite video output to connect directly to a TV or projector (requires Apple Video Adapter, sold separately)
- Support for video mirroring: external devices display an image identical to that shown on the built-in display

Electrical and environmental requirements

- Meets ENERGY STAR requirements
- Line voltage: 100–120V AC or 200–240V AC, depending on country of use
- Frequency: 50Hz to 60Hz, single phase
- Maximum continuous power: 230W
- Operating temperature: 50° to 95° F (10° to 35° C)
- Storage temperature: –40° to 116° F (–40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 feet

Size and weight

- Height: 15.8 inches (40.6 cm)
- Width: 15.8 inches (40.6 cm)
- Depth: 17.1 inches (43.3 cm)
- Weight: 50 pounds (22.7 kg)[5]

Education Product Details
eMac

Configurations

Order number	M9423LL/A	M9424LL/A	M9425LL/A	M9461LL/A
Processor	1GHz PowerPC G4	1GHz PowerPC G4	1.25GHz PowerPC G4	1.25GHz PowerPC G4
System bus	167MHz	167MHz	167MHz	167MHz
Memory	256MB of PC2700 (333MHz) DDR SDRAM; supports up to 1GB	256MB of PC2700 (333MHz) DDR SDRAM; supports up to 1GB	256MB of PC2700 (333MHz) DDR SDRAM; supports up to 1GB	256MB of PC2700 (333MHz) DDR SDRAM; supports up to 1GB
Hard drive[4]	40GB Ultra ATA/100	40GB Ultra ATA/100	40GB Ultra ATA/100	80GB Ultra ATA/100
Optical drive	—	CD-ROM	Combo (DVD-ROM/CD-RW)	SuperDrive (DVD-R/CD-RW)
Display	17-inch (16-inch viewable) flat CRT	17-inch (16-inch viewable) flat CRT	17-inch (16-inch viewable) flat CRT	17-inch (16-inch viewable) flat CRT
Graphics support	ATI Radeon 9200 with 32MB of dedicated DDR SDRAM	ATI Radeon 9200 with 32MB of dedicated DDR SDRAM	ATI Radeon 9200 with 32MB of dedicated DDR SDRAM	ATI Radeon 9200 with 32MB of dedicated DDR SDRAM
FireWire 400	Two ports	Two ports	Two ports	Two ports
USB 2.0	Three ports	Three ports	Three ports	Three ports
USB 1.1 (on keyboard)	Two ports	Two ports	Two ports	Two ports
Ethernet	10/100BASE-T	10/100BASE-T	10/100BASE-T	10/100BASE-T
Modem	—	—	56K V.92[2]	56K V.92[2]
Wireless networking	AirPort Extreme ready[3]; optional internal Bluetooth module	AirPort Extreme ready[3]; optional internal Bluetooth module	AirPort Extreme ready[3]; optional internal Bluetooth module	AirPort Extreme ready[3]; optional internal Bluetooth module
Speakers	Integrated stereo speakers	Integrated stereo speakers	Integrated stereo speakers	Integrated stereo speakers
Software	Mac OS X, Classic environment, Mail, iChat AV, Safari, Sherlock, Address Book, QuickTime, iLife (includes iTunes, iPhoto, iMovie, iDVD,[6] GarageBand), iSync, iCal, DVD Player, AppleWorks, Microsoft Internet Explorer, EarthLink (includes 30 days of free dial-up service with activation), Quicken 2004 for Mac, World Book 2004 Edition, Sound Studio, Tony Hawk's Pro Skater 4, Deimos Rising, Zinio Reader, Apple Hardware Test			
Service and support	90 days of free telephone support and one-year limited warranty			
Also included	Apple Keyboard, Apple Mouse, modem cable			

Build-to-Order Options

In addition to choosing from Apple's preconfigured systems, you can order an eMac with factory-installed options such as additional RAM, AirPort Extreme wireless networking, and an internal Bluetooth module from the Apple Store for Education or an Apple Authorized Reseller.

Other Products

- eMac Tilt and Swivel Stand, M8784G/A
- AirPort Extreme Card, M8881LL/A
- AirPort Extreme Base Station, M8930LL/A
- AirPort Extreme Base Station with modem and antenna port, M8799LL/A
- Apple Video Adapter, M9109G/A
- Apple VGA Display Adapter, M8639G/A
- Apple FireWire Cable (4-pin to 6-pin), M8706G/A
- Apple 8x DVD-R Media Kit, M9472G/A
- D-Link USB Bluetooth Adapter, T6295ZM/A
- LaCie FireWire Combo Drive DVD-ROM/CD-RW, T9502ZM/A
- .Mac, M9036Z/A
- AppleCare Protection Plan, M8851LL/A

Extended Service and Support

Purchase the AppleCare Protection Plan to extend your service and support to up to three full years. The plan provides support for your Mac, the Mac OS, and many Apple consumer applications, so just one phone call can help resolve most issues. For more information, visit www.apple.com/support/products or call 800-823-2775.

For More Information

For more information about this and other Apple education products, visit www.apple.com/education or call 800-800-2775. To purchase products from the Apple Store for Education, go to www.apple.com/education/store.

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Internet access requires a compatible Internet service provider; fees may apply. Product contains electronic documentation. Backup copy of software is included. [1]Available in selected models. [2]Compatible ISP and telephone services required. Your ISP may not support all V.92 features. Modem will function according to V.90 standards if V.92 services are not available. Actual modem speeds lower; speed depends on connection rate and other factors. Some configurations do not include a built-in modem. [3]Wireless Internet access requires AirPort Extreme Card, AirPort Base Station or AirPort Extreme Base Station, and Internet access (fees may apply). Some ISPs are not currently compatible with AirPort and AirPort Extreme. Range may vary with site conditions. Achieving data rates up to 54 Mbps requires that all users have an AirPort Extreme Card and connect to an AirPort Extreme Base Station. Wireless printing over USB requires Mac OS X v10.2.7 or later and a compatible printer. [4]1GB = 1 billion bytes; actual formatted capacity less. [5]Weight varies by configuration and manufacturing process. [6]iDVD requires an Apple Combo drive or SuperDrive.

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